



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

**269T1338-11**  
**Job Sheet 197195**



**Part No:** 269T1338-11

**Job Qty:** 1 pcs

**Part Name:** Pitch Link Rigging Block



**Part Weight:** 0 lbs

**Status:** New

**Priority:** Medium

**Job Created:** 7/2/19

**Job Tracking No:**

**Due Date:** 9/3/19

**Created By:** Marie Lajeunesse

**Type:** SOLD

**Description:** ORDER 17604

**Note:** DWG 269T1338-11 Rev 4 IPP Rev A 18.02.12 New Issue FK Verify DP

**Ship Via:**

### Bill of Materials

### Job Routing

| Op No | Operation                   | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off |
|-------|-----------------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|----------|
|       |                             |       |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |          |
| 100   | Small Fab - 1               | 1 pcs | 9/3/19     |          | 0.08      | 1.00    | Small Fab - 1         |           | MLL      |
|       |                             |       |            |          |           |         | Small Fab - 2         |           |          |
|       |                             |       |            |          |           |         | Small Fab - 3         |           |          |
|       |                             |       |            |          |           |         | Small Fab - 4         |           |          |
|       |                             |       |            |          |           |         | Small Fab - 5         |           |          |
|       |                             |       |            |          |           |         | Small Fab - 6         |           |          |
|       |                             |       |            |          |           |         | Small Fab - 7         |           |          |
| 110   | QC 5                        | 1 pcs | 9/3/19     |          | 0.00      | 0.00    | QC 5 - 10             |           |          |
|       |                             |       |            |          |           |         | QC 5 - 12             |           |          |
|       |                             |       |            |          |           |         | QC 5 - 17             |           |          |
|       |                             |       |            |          |           |         | QC 5 - 18             |           |          |
|       |                             |       |            |          |           |         | QC 5 - 19             |           |          |
|       |                             |       |            |          |           |         | QC 5 - 22             |           |          |
|       |                             |       |            |          |           |         | QC 5 - 24             |           |          |
|       |                             |       |            |          |           |         | QC 5 - 3              |           |          |
|       |                             |       |            |          |           |         | QC 5 - 43             |           |          |
|       |                             |       |            |          |           |         | QC 5 - 49             |           |          |
|       |                             |       |            |          |           |         | QC 5 - 51             |           |          |
|       |                             |       |            |          |           |         | QC 5 - 58             |           |          |
|       |                             |       |            |          |           |         | QC 5 - 68             |           |          |
| 130   | Packaging 3-1 - Stock - B4B | 1 pcs | 9/3/19     |          | 0.00      | 0.00    | Packaging 3 - 1 - B4B |           |          |
|       |                             |       |            |          |           |         | Packaging 3 - 2 - B4B |           |          |
|       |                             |       |            |          |           |         | Packaging 3 - 3 - B4B |           |          |
|       |                             |       |            |          |           |         | Packaging 3 - 4 - B4B |           |          |
|       |                             |       |            |          |           |         | Packaging 3 - 5 - B4B |           |          |
|       |                             |       |            |          |           |         | Packaging 3 - 6 - B4B |           |          |
|       |                             |       |            |          |           |         | Packaging 3 - 7 - B4B |           |          |



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1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
CANADA  
TEL.: 1 613 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

**Container No:** S196711



**Part:** 269T1338-11

**Job No:** 197195

**Serial No/Batch:** S196711

**Revision:** 4

**Inspector:**

**Exp Date:**

**Instructions:**

Date: 07/09/19

DAS  
40  
9-89

|     |            |       |        |                        |                 |
|-----|------------|-------|--------|------------------------|-----------------|
|     |            |       |        | Packaging 3 - 8 - B4B  |                 |
|     |            |       |        | Packaging 3 - 9 - B4B  |                 |
|     |            |       |        | Packaging 3 - 10 - B4B |                 |
|     |            |       |        | Packaging 3 - 11 - B4B |                 |
|     |            |       |        | Packaging 3 - 12 - B4B |                 |
|     |            |       |        | Packaging 3 - 13 - B4B |                 |
|     |            |       |        | Packaging 3 - 14 - B4B |                 |
|     |            |       |        | Packaging 3 - 15 - B4B |                 |
|     |            |       |        | Packaging 3 - 16 - B4B |                 |
|     |            |       |        | Packaging 3 - 17 - B4B |                 |
|     |            |       |        | Packaging 3 - 18 - B4B |                 |
|     |            |       |        | Packaging 3 - 19 - B4B |                 |
|     |            |       |        | Packaging 3 - 20 - B4B |                 |
|     |            |       |        | Packaging 3 - 21 - B4B |                 |
|     |            |       |        | Packaging 3 - 22 - B4B |                 |
|     |            |       |        | Packaging 3 - 23 - B4B |                 |
|     |            |       |        | Packaging 3 - 24 - B4B |                 |
|     |            |       |        | Packaging 3 - 25 - B4B |                 |
|     |            |       |        | Packaging 3 - 26 - B4B |                 |
|     |            |       |        | Packaging 3 - 27 - B4B |                 |
|     |            |       |        | Packaging 3 - 28 - B4B |                 |
|     |            |       |        | Packaging 3 - 29 - B4B |                 |
|     |            |       |        | Packaging 3 - 30 - B4B |                 |
|     |            |       |        | Packaging 3 - 31 - B4B |                 |
|     |            |       |        | Packaging 3 - 32 - B4B |                 |
|     |            |       |        | Packaging 3 - 33 - B4B |                 |
|     |            |       |        | Packaging 3 - 34 - B4B |                 |
|     |            |       |        | Packaging 3 - 35 - B4B |                 |
|     |            |       |        | Packaging 3 - 36 - B4B |                 |
| 140 | QC 21 - FG | 1 pcs | 9/3/19 | 0.00 0.00              | QC 21 - FG - 21 |
|     |            |       |        |                        | QC 21 - FG - 70 |
|     |            |       |        |                        | QC 21 - SA - 53 |

DMM.

GA 079

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JUL 10 2019

Part Op 100 - (Small Fab) 1- Assemble as per DWG sheet 1 2-When pressing -17 use machining fixture 269T1338-11 for -15.  
 Descriptions: Make sure to insert shim stock into gap to keep fixture from collapsing when pressing bushing.

110 - (QC5- Inspect part completeness to step on W/O)

130 - (Identify as per dwg & Stock Location: \_\_\_\_\_) Identify and Stock

140 - (QC21- Final Inspection - Work Order Release)

## Job BOM

| Part / Item    | Component Name             | Quantity            | Operation         | Container |
|----------------|----------------------------|---------------------|-------------------|-----------|
| 269T1338-11-13 | Block                      | 1 pcs (1 ea)        | 100-Small Fab - 1 | 5122053   |
| 269T1338-11-15 | Locator                    | 1 pcs (1 ea)        | 100-Small Fab - 1 | 5122211   |
| 269T1338-11-25 | T-Pin                      | 2 pcs (2 ea)        | 100-Small Fab - 1 | 5076100   |
| 8492A141       | Drill Bushing              | 2 Ea (2 ea)         | 100-Small Fab - 1 | 5047595   |
| 90945A761      | Washer                     | 2 Ea (2 ea)         | 100-Small Fab - 1 | 5047616   |
| 91400A240      | Machine Screw              | 1 Ea (1 ea)         | 100-Small Fab - 1 | 5047596   |
| 92240A540      | Hex Hdc Screw 1/4-20 X 3/4 | 2 Ea (2 ea)         | 100-Small Fab - 1 | 5122586   |
| 98381A471      | Dowel Pin                  | 2 Ea (2 ea)         | 100-Small Fab - 1 | 5047617   |
| CL-194-TERM-2  | Eyelet                     | 2 Ea (2 ea)         | 100-Small Fab - 1 | 5041609   |
| CL-2-C         | Lanyard Wire               | 1.3300 ft (1.33 ea) | 100-Small Fab - 1 | 3119833   |
| CL-2-F         | Ferrule                    | 2 Ea (2 ea)         | 100-Small Fab - 1 | 5075155   |

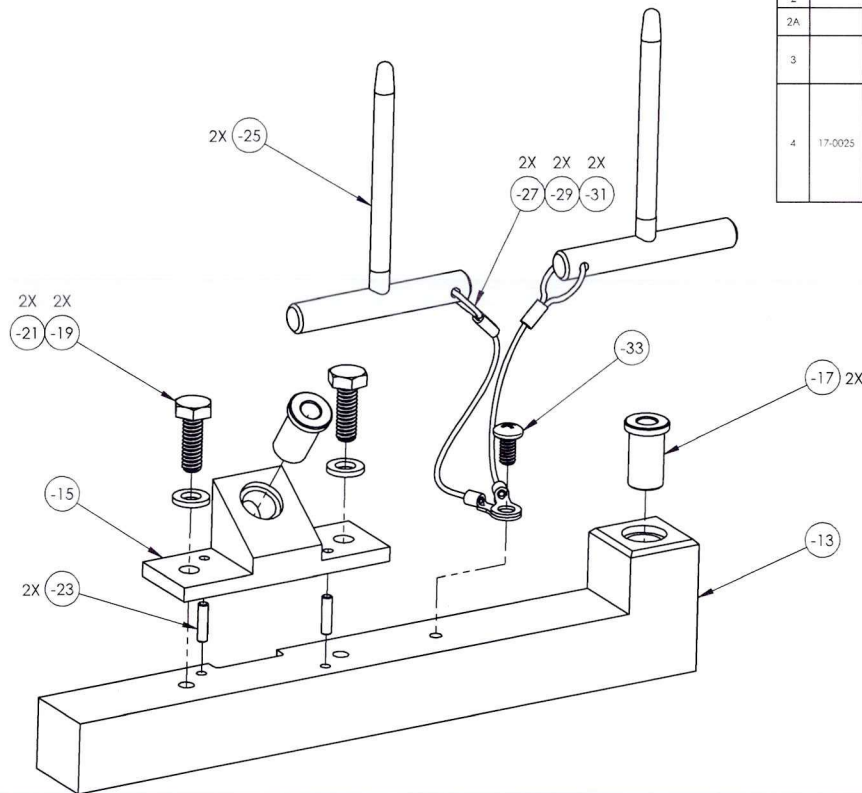
010817

| Job Allocations                    |                |          |           |           |
|------------------------------------|----------------|----------|-----------|-----------|
| Operation                          | Component Part | Required | Inventory | Allocated |
| 100-Small Fab - 1                  | 269T1338-11-13 | 1        | 1         | 0         |
|                                    | 269T1338-11-15 | 1        | 1         | 0         |
|                                    | 269T1338-11-25 | 2        | 2         | 0         |
|                                    | 8492A141       | 2        | 2         | 0         |
|                                    | 90945A761      | 2        | 98        | 0         |
|                                    | 91400A240      | 1        | 49        | 0         |
|                                    | 92240A540      | 2        | 98        | 0         |
|                                    | 98381A471      | 2        | 98        | 0         |
|                                    | CL-.194-TERM-2 | 2        | 27        | 0         |
|                                    | CL-2-C         | 1        | 1,258     | 0         |
|                                    | CL-2-F         | 2        | 319       | 0         |
| Part Specifications                |                |          |           |           |
| Specifications could not be found. |                |          |           |           |

Plex 7/2/19 1:26 PM Dart.lajeunesse.marie



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| REVISIONS |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |         |          |
|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|----------|
| REV       | ECR     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DATE       | INITIAL | APPROVED |
| 1         |         | -15 LOCATOR HT., WAS 1.13±.010, NOW 1.105±.005.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8/21/2009  | WP      |          |
| 1A        |         | CHD P/N -23 FROM ROLL PIN PER WP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 9/29/2009  | RJC     | WP       |
| 2         |         | CHD -25 T-PIN FROM BUY OUT TO BEING MACHINED Ø.2470 TO Ø.2485 PER DAVE. ADDED PAGE 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11/12/2009 | WP      | RW       |
| 2A        |         | CREATED SHEETS 3 & 4. MOVED COMPONENTS INTO SEPERATE SHEETS, REVISED BOM, ADDED NOTE 2. CHD -25 FINISH FROM BLACK OXIDE TO BLACK ZINC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9/8/2011   | SE      | RW       |
| 3         |         | -13 DELETED R.062 IN BOTTOM OF CUTOUT. ADDED MISSING DIM 2X R.06. CHD DIM WAS 2X Ø.125 P.F. -23 IS 2X UNITS Ø.124 TO .1249. -15 CHD DIM WAS 2X Ø.125 IS 2X UNITS Ø.125 TO .1258. -19 ADDED B/O INFO #90945A761. -23 ADDED B/O INFO #98361A471. -27 ADDED B/O INFO #3897131. -33 ADDED B/O INFO #91400A240. CHD TOLERANCE ON NON-CRITICAL PARTS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5/22/2014  | DPD     | GE       |
| 4         | 17-0025 | UPDATED TO NEW STANDARDS. DELETED NOTE 1 & 2. -13 CHD DIM WAS Ø.313 THRU L J Ø.563 ±.0945 F. -17 Ø.4360/ .4375 ±.04 P.F. -17 IS Ø.313 THRU ALL Ø.4360/ .4375 ±.04 L J Ø.563 ±.094 (P.F. -17) WAS 2X 1/4-20 UNC THRU IS 2X 1/4-20 UNC. -28 THRU ALL WAS #10-24 UNC. -23 IS 10-24 UNC. -28 ±.63. REMOVED DIM 6.020, 1.125, .50. ADDED DIM 5.520, .625, 1.500, .250. -15 CHD DIM WAS 500 IS 2X .500. WAS Ø.4360/ .4375 THRU P.F. -17 L J Ø.563 ±.0945 F. -17 IS Ø.4360/ .4375 THRU (P.F. -17) L J Ø.563 ±.094 (S.F. -17) WAS 35° IS (35°). REMOVED DIM (.610), .175, .905, (.405). -23 CHD MATERIAL WAS S.S. 10 STEEL. -25 CHD DIM WAS 3.0 IS (3.0). CHD FINISH AND SPEC WAS BLACK ZINC. ASTM B633-RE, TYPE II, CLASS II IS BLACK OXIDE QAMSA-2.2. S.O. REV'D. -27 CHD B/O INFO WAS 7-19 STRAND, Ø1/16 X 8 MCMASTER-CARR #8930752 IS Ø.062 X 8 (CARR LANE CL-2-C). -29 CHD B/O INFO WAS Ø1/32 MCMASTER-CARR #3897131 IS ID.138 (CARR LANE # CL-2-F). -31 CHD B/O INFO WAS #10 IS #10 (CARR LANE # CL-194-TERM). | 1/30/2017  | SM      | JAG      |

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 19719 ML5  
19-07-02

NOTE:  
WHEN PRESSING -17 INTO -15 USE MACHINING  
FIXTURE FOR -15. MAKE SURE TO INSERT SHIM  
STOCK INTO GAP TO KEEP FIXTURE FROM  
COLLAPSING WHEN PRESSING BUSHING.

| ASSY QTY | ASSY QTY | B/O | Part # | UNIT QTY | Description          | Material     | B/O INFORMATION OR SPECIFICATIONS             | PG. |
|----------|----------|-----|--------|----------|----------------------|--------------|-----------------------------------------------|-----|
|          |          |     | -13    | 1        | BLOCK                | 6061         |                                               | 2   |
|          |          |     | -15    | 1        | LOCATOR              | 6061         |                                               | 3   |
|          | R/O      |     | -17    | 2        | DRILL BUSHING        | STEEL        | Ø1/4 X 3/4 (MCMASTER-CARR # 8492A141)         | 1   |
|          | B/O      |     | -19    | 2        | HEX HEAD CAP SCREW   | S.S.         | 1/4-20 X 3/4 (MCMASTER-CARR # 92240A540)      | 1   |
|          | B/O      |     | -21    | 2        | WASHER               | S.S.         | Ø1/4 ID (MCMASTER-CARR # 90945A761)           | 1   |
|          | B/O      |     | -23    | 2        | DOWEL PIN            | STEEL        | Ø1/8 X 1/2 (MCMASTER-CARR # 98361A471)        | 1   |
|          |          |     | -25    | 2        | T-PIN                | STEEL        | Ø1/4 X 3 (MCMASTER-CARR # 98021A419) MODIFIED | 4   |
|          | B/O      |     | -27    | 2        | COATED LANYARD CABLE | COATED STEEL | Ø.062 X 8 (CARR LANE CL-2-C)                  | 1   |
|          | B/O      |     | -29    | 2        | FERRULE              | METAL        | ID.138 (CARR LANE # CL-2-F)                   | 1   |
|          | B/O      |     | -31    | 2        | WIRE CRIMP EYELET    | METAL        | #10 (CARR LANE # CL-194-TERM)                 | 1   |
|          | B/O      |     | -33    | 1        | MACHINE SCREW        | S.S.         | #10-24 X 3/8 (MCMASTER-CARR # 91400A240)      | 1   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------|----------------------------|------|--------------------------|-------|---------------------------|--------|---------------------|------|----------------------|----------------------------------------------|--|-------------------------------------------|--|-----------------------------------------------|--|---------------|--|----------------------|--|
| <b>DART AEROSPACE</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| TITLE<br>PITCH LINK RIGGING BLOCK ASSEMBLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| DWG NO.<br>269T1338-11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | REV<br>4                   |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| <table border="1"> <tr> <td>MAT'L</td> <td>UNLESS OTHERWISE SPECIFIED</td> </tr> <tr> <td>HEAT</td> <td>DIMENSIONS ARE IN INCHES</td> </tr> <tr> <td>TREAT</td> <td>XXX ±.005 FRACTIONS ± 1/8</td> </tr> <tr> <td>FINISH</td> <td>XX ±.01 ANGLES ±.5°</td> </tr> <tr> <td>SPEC</td> <td>X ±.1 SURFACES ±125°</td> </tr> <tr> <td colspan="2">1. BREAK ALL SHARP EDGES .015 x 45° OR .015R</td> </tr> <tr> <td colspan="2">2. DIMENSIONAL LIMITS APPLY AFTER PLATING</td> </tr> <tr> <td colspan="2">3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009</td> </tr> <tr> <td colspan="2">USED ON MODEL</td> </tr> <tr> <td colspan="2">SCHWEIZER, SEE NOTES</td> </tr> </table> |                            | MAT'L | UNLESS OTHERWISE SPECIFIED | HEAT | DIMENSIONS ARE IN INCHES | TREAT | XXX ±.005 FRACTIONS ± 1/8 | FINISH | XX ±.01 ANGLES ±.5° | SPEC | X ±.1 SURFACES ±125° | 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R |  | 2. DIMENSIONAL LIMITS APPLY AFTER PLATING |  | 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009 |  | USED ON MODEL |  | SCHWEIZER, SEE NOTES |  |
| MAT'L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | UNLESS OTHERWISE SPECIFIED |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| HEAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DIMENSIONS ARE IN INCHES   |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| TREAT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | XXX ±.005 FRACTIONS ± 1/8  |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| FINISH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | XX ±.01 ANGLES ±.5°        |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| SPEC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | X ±.1 SURFACES ±125°       |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| USED ON MODEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| SCHWEIZER, SEE NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| DRAWN BY: PERRITT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | CHECKED: RJC 02/01/2017    |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| OPPS APPR: AA 02/06/2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | QA APPR: JL 02/08/2017     |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| APPROVED: JAG 02/21/2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DATE: 8/15/2007            |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |
| SCALE: 2:3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SHEET 1 OF 4               |       |                            |      |                          |       |                           |        |                     |      |                      |                                              |  |                                           |  |                                               |  |               |  |                      |  |

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                        |  |
| Root Cause                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                   | FAULT CATEGORY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                        |  |
| <div style="display: flex; flex-direction: column; align-items: flex-start;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Preservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details: <div style="border: 1px solid black; height: 100px; width: 100%; margin-top: 5px;"></div>                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                        |  |